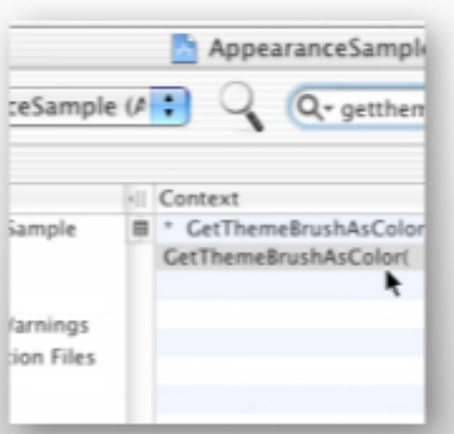
AppleScript Studio

Session 306



AppleScript Studio

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AppleScript Studio

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Agenda

- Introduction
- Brief overview
- Studio 1.2 features
- Studio 1.3 features
- Future features
- Documentation
- Q&A

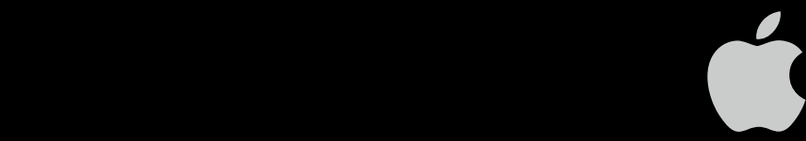
Introduction

Introduction

- What is AppleScript Studio?
- What can you do with Studio?

What Is AppleScript Studio?

- It is a combination of:
  - The AppleScript language
  - Xcode
  - Interface Builder
  - The Cocoa application frameworks
- It is a development tool for building native Mac OS X applications
- It is a runtime system for running Studio applications



What Can You Do With Studio?

- Create native Mac OS X applications
- Take advantage of Cocoa's rich user interface
- Control other scriptable applications, both locally or across the network
- Use web services
- Talk to the shell using `do shell script`
- Leverage code from other development languages, such as C, C++, Objective-C, Objective-C++ and Java

Brief Overview

Brief Overview

- Version summary
- Build Hello World application

Version Summary

- AppleScript Studio 1.0
  - December 2001 Developer Tools
- AppleScript Studio 1.1
  - April 2002 Developer Tools
- AppleScript Studio 1.2
  - Mac OS X version 10.2 (Jaguar)
- AppleScript Studio 1.2.1
  - December 2002 Developer Tools
- AppleScript Studio 1.3
  - Panther

Build Hello World Application

- Quick look at how to build a simple Studio application:
  - Create your interface
  - Attach your event handlers and scripts
  - Edit your scripts
  - Build and run

Demo

Hello World

Tim Bumgarner

Studio 1.2 Features

Studio 1.2 Features

- Drag and drop support
- Pasteboard support
- Data source enhancements
- Document-based applications

Drag and Drop Support

- New event handlers:
  - `drag entered`
  - `drag exited`
  - `drag updated`
  - `drop`
  - `prepare drop`
  - `conclude drop`
- New command:
  - `register drag types`

Demo

Drag and Drop

John Coelho
AppleScript Studio QA Engineer

Pasteboard Support

- `pasteboard` class
- Named pasteboards
  - `general`
  - `drag`
  - `find`
  - `ruler` and `font`
- `preferred contents` property
  - Allows getting and setting pasteboard data using the appropriate or preferred data type

Demo

Pasteboard

John Coelho

Data Source Enhancements

- `make new` support
- `append` command
  - Allows adding data to a data source in a single command, which provides significant speed improvements
- Sorting support
  - With some setup in your data source, table columns can be automatically sorted

Demo

Data Source Enhancements

John Coelho

Document-based Applications

- High level event handlers
  - `data representation`
  - `load data representation`
- Low level event handlers
  - `read from file`
  - `write to file`

Demo

Document-based Applications

John Coelho

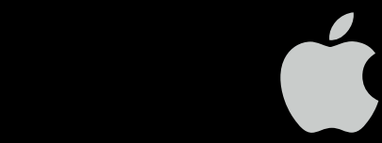
Studio 1.3 Features

Studio 1.3 Features

- `script` property
- Plug-in support
- Xcode scriptability

`script` property

- Every object has one
- Provides access to scripts attached to other objects
  - `properties`
  - `globals`
  - `handlers`
- Can dynamically set the script of other objects
- External applications can access the script property



Demo

Script Property

John Coelho

Plug-in Support

- `plugin loaded` event handler
  - Supported by Xcode
- Additional support for `make new` and `delete`
  - Menus and Menu Items can now be created via `make new` allowing you to dynamically add or change menu items
  - Other objects will be coming in the future!

Xcode Scriptability

- Low level classes
  - `projects`
  - `targets`
  - `file references`
- High level classes
  - `documents`
  - `windows`
  - `views`

Demo

Plug-in and Xcode

Tim Bumgarner

Future Features

Future Features

- Additional `make new` and `delete` support of objects
- Toolbar support
- Dock menu support
- Improved dictionary viewer

Wrap Up

Roadmap

401 AppleScript Update
Annual update on AppleScript

Russian Hill
Mon., 5:00pm

FF005 AppleScript Feedback Forum
Come give us your feedback

North Beach
Wed., 9:00am

718 AppleScript and QuickTime
Automation of QuickTime using AppleScript

SOMA
Wed., 2:00pm

Roadmap

414 AppleScript: Making Your Carbon and Cocoa Application Scriptable
Implementing scriptability of your application

The Presidio
Thur., 10:30am

311 Software Testing Tools for Mac OS X
Automated software testing

Russian Hill
Fri., 10:30am

623 AppleScript for System Administrators
Power of AppleScript for system administration

Pacific Heights
Fri., 2:00pm

Who to Contact

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http://developer.apple.com/wwdc2003/urls.html

For More Information

Reference Library

Documentation

Building Applications With AppleScript Studio
ADC Home > Documentation > AppleScript >

AppleScript Studio Terminology Reference
ADC Home > Documentation > AppleScript >

AppleScript Studio Release Notes
ADC Home > Documentation > AppleScript >

Reference Library

Sample Code

AppleScript Studio Sample Applications
/Developer/Examples/AppleScript Studio

Other Resources

AppleScript Studio Website
http://www.apple.com/applescript/studio/

Q&A

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http://developer.apple.com/wwdc2003/urls.html

WWDC 2003

Worldwide Developers Conference